

Application No.: 09/620,102

Docket No.: 00-VE20.57

1. (Currently amended) A computer system for supporting communication between a plurality of users and at least one application server comprising:

an application service program on the at least one application server for receiving a client request from a client program executing on a computer associated with at least one of the users;

a client interface program for communicating messages between said client program and said application service program;

a service manager bean coupled to said application service program for creating and returning to said client program a handle to a functional bean appropriate to the client request wherein the functional bean is a modified entity bean configured to model a business function;

a data store interface for coupling said application service program to a data storage system, said data storage system comprising at least one computing device, wherein said computing device is not said computer associated with said at least one of the users; and

memory coupled to said application service program, said memory for queuing customer requests and for servicing the queued customer requests in accordance with the code contained in the functional bean, said code providing for access to the data storage system via the data store interface.

2. (Original) The computer system of claim 1 wherein the functional bean is accessible by a program running on the client via an EJBObject.
3. (Canceled)
4. (Original) The computer system of claim 1 wherein the functional bean is configured to provide transactional persistence to a client transaction.
5. (Original) The computer system of claim 1 wherein the client is web-based.

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6. (Original) The computer system of claim 1 wherein the client is an application, an applet, a servlet or a JSP that can communicate with an EJB Object's remote interface using RMI over TCP/IP or IOP.

7. (Currently amended) A computer system comprising a plurality of sets of functional beans, each set comprising at least one functional bean assigned to perform a particular business method, the computer system comprising:

a microprocessor;

a memory device coupled to the microprocessor;

a service manager program coupled to the memory device and configured to receive a number of requests from at least one of a plurality of types of transactions from a plurality of clients;

at least one of a plurality of resources;

a load-sharing program coupled to the service manager program and configured to create instances of functional beans based on a criterion, wherein each functional bean is a modified entity bean;

the service manager program configured to obtain a handle to an instance of a functional bean based on a type of transaction requested by a client; and

the service manager program configured to return the handle to the client, wherein the client is configured to use the handle to interact with the functional bean to execute a business method, wherein the functional bean is configured to model a business function.

8. (Original) The computer system of claim 7 wherein the criterion is based on the number of resources.

9. (Original) The computer system of claim 7 wherein the criterion is based on the number of requests from the plurality of clients.

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10. (Currently amended) Computer-processor-executable software code stored in a computer-readable memory, said code comprising:

instructions to direct a computer processor to receive a first request from a client for a handle to a particular type of functional bean that is a modified entity bean;

instructions to direct the computer processor to create an instance of a functional bean of the particular type requested;

instructions to direct the computer processor to obtain a handle to said instance of said functional bean; and

instructions to direct the computer processor to transmit to the client said handle to said instance of said functional bean,

wherein the computer processor, responsive to a second request from the client enables the client to execute code comprised in the functional bean to accomplish a particular business function, wherein the functional bean is configured to model the business function.

11. (Original) The code of claim 10, further comprising instructions to receive the first request and the second request from the client via a computer network.

12. (Original) The code of claim 10, further comprising instructions to create a number of instances of functional beans of the particular type requested, said number being dependent on available of resources.

13. (Original) The code of claim 10, further comprising instructions that allow a functional bean to instantiate a second functional bean of a second type in order to execute the business logic contained in the second functional bean instance.

14. (Original) The code of claim 10, further comprising:

instructions that allow a client to create a session with an instance of a session Enterprise JavaBean; and